



Code	Description
742030100	AUTOMATIC MICRO-HARDNESS TESTER
	MICROSCAN OD
	Automatic optical-digital system for Vickers micro-hardness testing from HV0,01 to HV1 (up to HV5 with optional loads) according to ISO 6507-2 Standards. Compliance with ASTM E384 available upon request.
	Determines Knoop hardness by using the relevant indenter.
	The system consists of:
	BASIC STRUCTURE
	Consisting of:
	 Sturdy cast iron stand Main body pivoting on a cylinder rod, fitted with macro/micrometric focusing device. Suitable for testing large sized work pieces. Microscope fitted with 10X and 50X objectives (other magnification objectives can be ordered separately) 20W halogen illuminator with adjustable intensity 10X digital micrometric eyepiece featuring 0,01 µm resolution, calibrated for the use of both 10X and 50X objectives Load application device featuring adjustable speed by means of a dashpot Standard loads to be selected manually:10 – 15 – 25 – 50 – 100 – 200 – 300 – 500 - 1000 gf (0,098 - 0,147 - 0,245 - 0,490 - 0,980 - 1,961 - 2,942 - 4,903 - 9,807 N) (optional loads up to 5000 gf / 49,03 N) Manual X-Y stage 125 x 125 mm, travel range 25x25 mm, with micrometers 0.01 mm resolution Accessory case including:
	 136° diamond pyramid indenter for Vickers microhardness testing HV1 test block Instruction manual Dust cover Small bottle of oil for dash-pot Screw driver





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	OPTICAL-DIGITAL READOUT SYSTEM
	Including:
	Colour touch screen LCD provided with alphanumerical readout and practical, quick and ease-of-use graphics
	Selectable load dwell time
	Software guide to the correct configuration in the various scales
	Possibility to save/retrieve test batches on external devices such as USB key and/or LAN company networks
	Possibility to enter a nominal values and tolerances
	Software for the calculation of statistical parameters, such as average value, standard deviation, max. and min. values and number of measurements with indication of out-of-tolerance values, date, time, work piece No., batch No., histogram of the effected tests, line chart with indication of the test trend
	Data convertible into text or Excel formats
	Automatic software updates via USB key
	 Automatic conversion of the values measured in the various hardness scales: Rockwell, Brinell, Vickers, Knoop, as well as tensile strength according to either "Galileo conversion tables", ISO 18265 or ASTM E140 standards
	Automatic correction of measurements on the cylindrical and spherical work pieces as per ISO 6507 or ASTM standards
	Manual load selection with electronic load control
	Diagnosis and test menu
	Language selection
	Optical output for CCD or Camera (must be ordered separately)
	Maximum work piece height: 125 mm
	Throat depth: 130 mm
	 Dimensions of the instrument: mm (L 370 x w 370 x h 500) Weight: 30 kg





Code	Description
	TRAINING AND ACCESSORIES FOR MODELS
	ISOSCAN, VICKERS and MICROSCAN
742042202	TRAINING COURSE for AC models
	Training course at our premises providing instructions how to use the chosen instrument (file management, execution of test batches, programming and execution of hardness profiles). Duration of the course: 8 hours
	Board and lodging near our location as well as travel expenses are not included in the a.m. price and can be quoted upon request.
742EV2590	Integrated PLUS optional system for microhardness testers models AC
	consisting of:
	 Electronic digital micrometer head featuring 0.001 mm resolution mounted on the X axis, provided with relevant connection cables to interface with the central unit (optional on Y axis) Generation and handling of hardness profile (traverses) patterns as well as hardness arrays(1) Synoptic control of the progress in the execution of hardness profiles and arrays (1) Software to generate hardness profiles (traverses) on the basis of a pattern. Available profile (traverse) patterns: linear, zigzag, array (1) (hardness maps) on the basis of the coordinates acquired automatically by the digital micrometer head and the measured hardness values. Graphic visualization (2D and 3D (1)) of the profile on the screen. The results and the profile can be automatically transferred to Microsoft WORD® Template. Repetition of single indentations and / or single measurements Automatic determination of a hardness value at a given distance from edge Given a hardness value, calculation of the distance from edge Given a hardness value, calculation of the effective case depth Automatic calculation of the effective case depth
	NOTE (1) : Array functions can be carried out only if the digital micrometer head is mounted on the Y axis.
74051/0504	MICROMETER HEAD for Y axis
742EV2591	(available only for PLUS SYSTEM)
	Digital micrometer head featuring 0,001 mm resolution complete with electronic interface.
742EV2594	MICROMETRIC eyepiece
	(Optional for new Micro hardness tester AC series)
	10x magnification micrometric eyepiece to view indentations and work pieces





Code	Description
	ACCESSORIES FOR ISOSCAN SERIES
742EV2592	Dual indenter kit (Optional, to be supplied only upon order of a new hardness testers mod. Isoscan) consisting of: One Knoop indenter, one 40x objective, software for automatic indentation reading and result handling
742EV7001	USB CCD B/W Camera, high resolution, sensitivity and speed
742EV7002	Photo-tube with C-mount (for CCD camera)
742EV7003	Universal tilting vice
742EV7004	Specimen holder for prepared work pieces Ø 25 mm
742EV7005	Specimen holder for prepared work pieces Ø 30mm
742EV7006	Specimen holder for prepared work pieces Ø 40mm
742EV7007	Specimen holder for prepared work pieces Ø 1.25"
742EV7008	Specimen holder for prepared work pieces Ø 1.5"
742EV7009	Specimen precision holder (Vertical type)
742EV7010	Specimen precision holder (Horizontal type)
742EV7011	Thin specimen holding device
742EV7012	Precision vise (jaw opening 50 mm)
742EV7013	Precision vise (jaw opening 80 mm)
742EV7014	5x Objective
742EV7015	10x Objective
742EV7016	20x Objective
742EV7017	40x Objective
742EV7018	80x Objective
742EV7019	Additional built-in 5X objective complete with optical kit (supplied only upon order of a new hardness testers mod. Isoscan)
742EV7020	Additional built-in 10X objective complete with optical kit (supplied only upon order of a new hardness testers mod. Isoscan)
742EV7021	Additional built-in 20X objective complete with optical kit (supplied only upon order of a new hardness testers mod. Isoscan)
742EV7022	Additional built-in 40X objective complete with optical kit (supplied only upon order of a new hardness testers mod. Isoscan)
742EV7023	Additional built-in 80X objective complete with optical kit (supplied only upon order of a new hardness testers mod. Isoscan)
742EV7024	Flat Anvil ø 80 mm
742EV7025	Large Flat Anvil ø 180 mm
742EV7026	Large Flat Anvil ø 200 mm
742EV7027	Small V-Shape Anvil ø 80 mm
742EV7028	Deep V-Shape Anvil ø 80 mm
742EV7029	Vickers Diamond indenter for Isoscan series
742EV7030	Vickers Diamond indenter for ISOSCAN HV 50 hardness tester
742EV7031	Knoop diamond indenter for Isoscan series





Code	Description
742EV7033	X-Y Manual stage for Isoscan series (110 x 110mm / Travel 25 x 25)
	mm)
742EV7034	X-Y Manual stage for ISOSCAN HV 50 hardness tester (110 x 110mm)
7405\/7005	/ Travel 25 x 25 mm)
742EV7035	 X-Y Manual stage for Vickers hardness tester (110 x 110mm / Travel 50 x 50 mm)
742EV7036	X-Y Manual stage for ISOSCAN HV 50 hardness tester (180 x)
	180mm / Travel 25 x 25 mm)
742EV7037	X-Y Manual stage for ISOSCAN HV 50 hardness tester (180 x 180mm / Travel 50 x 50 mm)
742EV7038	X-Y Manual stage for ISOSCAN HV 50 hardness tester (200 x
	200mm / Travel 25 x 25 mm)
742EV7039	X-Y Manual stage for ISOSCAN HV 50 hardness tester (200 x 200mm / Traval 50 x 50 mm)
742EV7041	/ Travel 50 x 50 mm) • Calibration glass scale for microhardness testers
742277041	Calibration glass socie for misronaraness testers
	ACCESSORIES FOR MODELS
	MICROSCAN OD – AC
742020100	Test block 100-225 HV1 (*)
742020200	Test block 300-600 HV1 (*)
742020300	Test block 700-900 HV1 (*)
742022000	Special "V shaped" vice for wires
742021000	Revolving specimen holding vice
742032622	Chuck vise
742032623	Universal vise
742032624	Thin specimen holding device
742023000	KNOOP indenter with MPA certification
742024000	Micro - Vickers indenter for Microscan model
742032285	12V 20W halogen bulb for microscope
742032616	Test block for low hardness range HV 0,2 (*)
742032617	Test block for medium hardness range HV 0,2 (*)
742032618	Test block for high hardness range HV 0,2 (*)
742035000	2000 gf load for Microscan model
742036000	3000 gf load for Microscan model
742038000	5000 gf load for Microscan model
742039000	2500 gf load for Microscan model
742000288	20x Objective
742000289	5x Objective

